

ABSTRACT

To provide a voltage generating circuit for generating a boosted voltage on the basis of a power source voltage or any voltage.

A voltage generating circuit having a boosting circuit 1 for generating a voltage higher than a power source voltage, and a reference voltage generating circuit 2 for generating a reference voltage V_{ref} is equipped with a voltage variation detecting circuit 4 having a first input connected to the output of the boosting circuit 1, a second input having a power source V_{dd} and a third input connected to the ground V_{ss} , a control voltage V_{fd} being generated at a first output by making reference current equivalent to current occurring due to the potential difference between the first input and the second input flow into the third input, a differential amplifier circuit 61 for comparing the control voltage V_{fd} and the reference voltage V_{ref} , and a clamp circuit 62 for extracting current from the output of the boosting circuit 1 in accordance with the output of the differential amplifier circuit 61, thereby controlling the output voltage of the boosting circuit 1.